

**AMENDMENTS TO THE CLAIMS**

Please cancel claims 1-6, as set forth in the listing of claims that follows:

1-6. **(Cancelled)**

7. **(Previously Presented)** A heater and air-conditioning assembly for a vehicle comprising;

a compressor **(12)** for compressing a refrigerant,

a front end condenser **(14)** in fluid communication with said compressor for condensing fluid from said compressor **(12)**,

a chiller-condenser **(16)** disposed downstream of and in fluid communication with said condenser **(14)**,

a chiller-evaporator **(18)** disposed downstream of and in fluid communication with said chiller-condenser **(16)**,

a main three-way valve **(20)** disposed between said compressor **(12)** and said condenser **(14)** for directing flow from said compressor **(12)** to said condenser **(14)** in an air-conditioning mode and for directing flow from said compressor **(12)** through a by-pass line **(22)** to said chiller-condenser **(16)** in a heat pump mode,

a heat pump expansion device **(24)** for expanding and exchanging heat with the refrigerant in said heat pump mode, and

an by-pass valve (26) disposed between said chiller-condenser (16) and said chiller-evaporator (18) for directing flow from said chiller-condenser (16) through said heat pump expansion device (24) and to said chiller-evaporator (18) in said heat pump mode,

a cabin heat exchanger (36),

a coolant feed line (34) for conducting coolant flow from said chiller-condenser (16) to said cabin heat exchanger (36),

a coolant exit line (38) for conducting coolant from said cabin heat exchanger (36) to said chiller-evaporator (18),

an interconnect line (40) for conducting coolant from said chiller-evaporator (18) to said chiller-condenser (16), and

a coolant three-way valve (44) in said exit line (38) for directing coolant from said cabin heat exchanger (36) to an engine coolant circuit in said heat pump mode.

8      **(Previously Presented)**      A heater and air-conditioning assembly for a vehicle comprising;

a compressor (12) for compressing a refrigerant,

a front end condenser (14) in fluid communication with said compressor for condensing fluid from said compressor (12),

a chiller-condenser (16) disposed downstream of and in fluid communication with said condenser (14),

a chiller-evaporator (18) disposed downstream of and in fluid communication with said chiller-condenser (16),

a main three-way valve (20) disposed between said compressor (12) and said condenser (14) for directing flow from said compressor (12) to said condenser (14) in an air-conditioning mode and for directing flow from said compressor (12) through a by-pass line (22) to said chiller-condenser (16) in a heat pump mode,

a heat pump expansion device (24) for expanding and exchanging heat with the refrigerant in said heat pump mode, and

an by-pass valve (26) disposed between said chiller-condenser (16) and said chiller-evaporator (18) for directing flow from said chiller-condenser (16) through said heat pump expansion device (24) and to said chiller-evaporator (18) in said heat pump mode,

a cabin heat exchanger (36),

a coolant feed line (34) for conducting coolant flow from said chiller-condenser (16) to said cabin heat exchanger (36),

a coolant exit line (38) for conducting coolant from said cabin heat exchanger (36) to said chiller-evaporator (18),

an interconnect line (40) for conducting coolant from said chiller-evaporator (18) to said chiller-condenser (16), and

a coolant three-way valve (44) in said exit line (38) for directing coolant from said cabin heat exchanger (36) to said chiller-evaporator (18) and chiller-condenser (16) in said air conditioning mode.

9.     **(Original)**   An assembly as set forth in claim 8 including a heater (46) in said coolant circuit, an engine pump (48) in said coolant circuit for pumping coolant through an engine (50) and said heater (46).

10.    **(Original)**   An assembly as set forth in claim 9 including a radiator (52), a thermostat (54) in said coolant circuit for selectively directing coolant in said coolant circuit through said heater (46) and said radiator (52) and said chiller-evaporator (18).

11. **(Original)** An assembly as set forth in claim 10 including an air-conditioning expansion device **(28)** disposed downstream of said condenser **(14)** and upstream of said by-pass line **(22)** for expanding the refrigerant in the air-conditioning mode, a return line **(30)** from said chiller-evaporator **(18)** to said compressor **(12)**, an accumulator-dehydrator **(32)** in said return line **(30)**, and a circuit pump **(42)** in said feed line for pumping coolant from said chiller-condenser **(16)** to said cabin heat exchanger **(36)**.